

Table S1. Changes in weather data collected in Athens, Georgia in year 2000.

Month	Avg 5 cm Soil Temperature (°C)	Avg 10 cm Soil Temperature (°C)	Avg 20 cm Soil Temperature (°C)	Avg Vapor Pressure Deficit (kPa)	Evapotranspiration (mm)	Max Air Temperature (°C)	Min Air Temperature (°C)	Avg Air Temperature (°C)	Avg Relative Humidity (%)	Avg Vapor Pressure (kPa)	Total Solar Radiation (MJ/m ²)	Total Par (Einstein/m ²)	Total Rain (mm)
1	7.70	8.15	7.95	0.24	0.57	10.46	0.89	5.57	77.23	0.76	7.09	10.91	3.86
2	8.95	8.90	8.53	0.35	1.37	16.33	2.68	9.26	75.21	0.91	11.52	17.66	1.65
3	14.96	13.87	13.47	0.43	2.16	20.39	7.02	13.70	77.52	1.23	13.86	21.39	2.56
4	17.99	16.49	16.00	0.44	2.91	21.38	7.77	14.77	79.66	1.33	16.77	25.28	1.50
5	25.28	22.85	22.09	0.73	4.52	29.32	15.57	22.28	78.16	2.06	21.13	33.26	1.06
6	29.05	26.50	25.65	0.84	4.76	31.54	18.59	24.70	78.76	2.38	20.82	30.23	2.08
7	31.38	28.65	27.78	0.94	4.59	32.99	20.36	26.15	78.75	2.57	19.48	29.27	2.03
8	30.80	28.41	27.50	0.62	4.12	31.36	19.88	25.16	85.47	2.68	18.26	27.18	2.67
9	26.55	24.69	23.86	0.22	2.60	25.99	16.14	20.63	92.39	2.29	13.77	19.39	3.50
10	22.20	20.76	20.06	0.49	2.21	24.62	9.87	16.78	80.76	1.54	14.62	19.46	0.15
11	14.76	14.45	13.96	0.21	0.73	15.62	4.92	10.03	85.70	1.12	7.62	11.59	4.39
12	6.64	6.69	6.41	0.13	0.25	7.50	-2.53	2.04	82.94	0.61	6.39	9.69	2.70
total	7217.61	6732.88	6515.01	172.50	940.65	8165.41	3703.70	5834.32	29662.15	594.52	5229.28	7792.57	857.74
Average	19.72	18.40	17.80	0.47	2.57	22.31	10.12	15.94	81.04	1.62	14.29	21.29	2.34

Table S2. Changes in weather data collected in Athens, Georgia in year 2001.

Month	Avg 5 cm Soil Temperature (°C)	Avg 10 cm Soil Temperature (°C)	Avg 20 cm Soil Temperature (°C)	Avg Vapor Pressure Deficit (kPa)	Evapotranspiration (mm)	Max Air Temperature (°C)	Min Air Temperature (°C)	Avg Air Temperature (°C)	Avg Relative Humidity (%)	Avg Vapor Pressure (kPa)	Total Solar Radiation (MJ/m ²)	Total Par (Einstein/m ²)	Total Rain (mm)
1	6.87	6.23	5.80	0.25	0.75	11.51	-0.03	5.41	76.09	0.71	9.13	12.12	2.73
2	11.53	10.24	9.67	0.26	1.37	15.96	4.15	9.90	81.75	1.04	11.42	12.85	2.85
3	13.12	11.82	11.19	0.36	2.20	15.77	4.47	10.04	74.04	0.94	15.84	18.01	6.86
4	19.74	17.45	16.55	0.47	3.81	23.41	10.77	17.05	79.95	1.59	20.84	24.34	1.54
5	25.35	22.84	21.88	0.60	4.74	26.99	14.14	20.45	80.94	1.90	23.06	28.43	3.48
6	27.86	25.86	24.86	0.30	4.67	28.50	18.74	22.97	91.81	2.56	21.16	25.66	4.69
7	29.84	29.05	28.52	0.39	5.04	30.72	20.43	24.92	90.56	2.83	22.02	26.73	7.33
8	30.32	35.03	29.12	0.26	4.35	30.48	20.56	24.78	93.50	2.92	19.62	24.61	1.56
9	26.92	35.62	26.32	0.37	3.42	27.05	15.42	20.73	87.65	2.18	18.21	22.84	1.75
10	18.09	18.62	18.48	0.43	2.38	22.63	7.92	14.96	79.64	1.40	16.65	21.90	0.16
11	15.18	15.25	15.46	0.48	1.38	21.86	7.91	14.49	75.06	1.26	12.35	15.20	0.64
12	10.84	11.18	11.63	0.25	0.46	15.86	4.30	9.50	80.22	1.03	9.56	12.44	1.67
total	7180.75	7290.05	6691.76	134.66	1054.37	8244.26	3927.01	5946.57	30147.78	620.31	6089.26	7472.25	1075.91
Average	19.67	19.97	18.33	0.37	2.89	22.59	10.76	16.29	82.60	1.70	16.68	20.47	2.95